

810 Invoice

Functional Group ID=**IN**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BIG	Beginning Segment for Invoice	M	1		
Not Used	030	NTE	Note/Special Instruction	O	100		
	040	CUR	Currency	O	1		
	050	REF	Reference Identification	O	12		
Not Used	055	YNQ	Yes/No Question	O	10		
Not Used	060	PER	Administrative Communications Contact	O	3		
			LOOP ID - N1			200	
	070	N1	Name	O	1		
	080	N2	Additional Name Information	O	2		
	090	N3	Address Information	O	2		
	100	N4	Geographic Location	O	1		
	110	REF	Reference Identification	O	12		
	120	PER	Administrative Communications Contact	O	3		
Not Used	125	DMG	Demographic Information	O	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	140	DTM	Date/Time Reference	O	10		
Not Used	150	FOB	F.O.B. Related Instructions	O	1		
Not Used	160	PID	Product/Item Description	O	200		
Not Used	170	MEA	Measurements	O	40		
Not Used	180	PWK	Paperwork	O	25		
Not Used	190	PKG	Marking, Packaging, Loading	O	25		
Not Used	200	L7	Tariff Reference	O	1		
	212	BAL	Balance Detail	O	>1		
	213	INC	Installment Information	O	1		
Not Used	214	PAM	Period Amount	O	>1		
			LOOP ID - LM			10	
Not Used	220	LM	Code Source Information	O	1		
Not Used	230	LQ	Industry Code	M	100		
			LOOP ID - N9			1	
Not Used	240	N9	Reference Identification	O	1		
Not Used	250	MSG	Message Text	M	10		

Not Used	260	V1	Vessel Identification	O	1
Not Used	270	R4	Port or Terminal	O	>1
Not Used	280	DTM	Date/Time Reference	O	>1
LOOP ID - FA1					>1
Not Used	290	FA1	Type of Financial Accounting Data	O	1
Not Used	300	FA2	Accounting Data	M	>1

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments													
			LOOP ID - IT1			200000														
	010	IT1	Baseline Item Data (Invoice)	O	1															
Not Used	012	CRC	Conditions Indicator	O	1															
Not Used	015	QTY	Quantity	O	5		n1													
Not Used	020	CUR	Currency	O	1															
Not Used	030	IT3	Additional Item Data	O	5															
Not Used	040	TXI	Tax Information	O	10															
Not Used	050	CTP	Pricing Information	O	25															
Not Used	055	PAM	Period Amount	O	10															
	059	MEA	Measurements	O	40															
			LOOP ID - PID			1000														
Not Used	060	PID	Product/Item Description	O	1															
Not Used	070	MEA	Measurements	O	10															
Not Used	080	PWK	Paperwork	O	25															
Not Used	090	PKG	Marking, Packaging, Loading	O	25															
Not Used	100	PO4	Item Physical Details	O	1															
Not Used	110	ITD	Terms of Sale/Deferred Terms of Sale	O	2															
	120	REF	Reference Identification	O	>1															
Not Used	125	YNQ	Yes/No Question	O	10															
Not Used	130	PER	Administrative Communications Contact	O	5															
Not Used	140	SDQ	Destination Quantity	O	500															
	150	DTM	Date/Time Reference	O	10															
Not Used	160	CAD	Carrier Detail	O	>1															
Not Used	170	L7	Tariff Reference	O	>1															
Not Used	175	SR	Requested Service Schedule	O	1															
			LOOP ID - SAC			25														
	180	SAC	Service, Promotion, Allowance, or Charge Information	O	1															
	190	TXI	Tax Information	O	10															
			LOOP ID - SLN			1000														
	200	SLN	Subline Item Detail	O	1															
	205	DTM	Date/Time Reference	O	1															
	210	REF	Reference Identification	O	>1															
	220	PID	Product/Item Description	O	1000															
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	25															
Not Used	235	TC2	Commodity	O	2															
	237	TXI	Tax Information	O	10															

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set Refer to 003070 Data Element Dictionary for acceptable code values.	
>>	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Syntax Notes:

Semantic Notes: 1 BIG01 is the invoice issue date.
 2 BIG03 is the date assigned by the purchaser to purchase order.
 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments: 1 BIG07 is used only to further define the type of invoice when needed.

Notes: Invoice number:

*Utility will send a unique invoice number that will be returned with the payment

*Utility is responsible for cross referencing to internal systems

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
>>	BIG01	373	Date	M DT 6/6
			Date (YYMMDD)	
>>	BIG02	76	Invoice Number	M AN 1/22
			Identifying number assigned by issuer	
X	BIG03	373	Date	O DT 6/6
			Date (YYMMDD)	
X	BIG04	324	Purchase Order Number	O AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
X	BIG05	328	Release Number	O AN 1/30
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
X	BIG06	327	Change Order Sequence Number	O AN 1/8
			Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	
	BIG07	640	Transaction Type Code	O ID 2/2
			Code specifying the type of transaction	
			CI Consolidated Invoice	
			FB Final Bill	
			PR Product (or Service)	
	BIG08	353	Transaction Set Purpose Code	O ID 2/2
			Code identifying purpose of transaction set	

00 Original

07 Duplicate
CO Corrected

X BIG09 306 Action Code O ID 1/2

Code indicating type of action
Refer to 003070 Data Element Dictionary for acceptable code values.

X BIG10 76 Invoice Number O AN 1/22

Identifying number assigned by issuer

Segment:	CUR Currency
Position:	040
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:	<ol style="list-style-type: none"> 1 If CUR08 is present, then CUR07 is required. 2 If CUR09 is present, then CUR07 is required. 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required. 4 If CUR11 is present, then CUR10 is required. 5 If CUR12 is present, then CUR10 is required. 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required. 7 If CUR14 is present, then CUR13 is required. 8 If CUR15 is present, then CUR13 is required. 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required. 10 If CUR17 is present, then CUR16 is required. 11 If CUR18 is present, then CUR16 is required. 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required. 13 If CUR20 is present, then CUR19 is required. 14 If CUR21 is present, then CUR19 is required.
Semantic Notes:	
Comments:	1 See Figures Appendix for examples detailing the use of the CUR segment.

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	CUR01	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual This data element identifies the party using currency defined in the currency code CUR02	
			BY Buying Party (Purchaser) SE Selling Party	
>>	CUR02	100	Currency Code	M ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	
X	CUR03	280	Exchange Rate	O R 4/10
			Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	
X	CUR04	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 003070 Data Element Dictionary for acceptable code values.	
X	CUR05	100	Currency Code	O ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	
X	CUR06	669	Currency Market/Exchange Code	O ID 3/3
			Code identifying the market upon which the currency exchange rate is based	

Refer to 003070 Data Element Dictionary for acceptable code values.

X	CUR07	374	Date/Time Qualifier	X	ID 3/3
			Code specifying type of date or time, or both date and time Refer to 003070 Data Element Dictionary for acceptable code values.		
X	CUR08	373	Date	O	DT 6/6
			Date (YYMMDD)		
X	CUR09	337	ime	O	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
X	CUR10	374	Date/Time Qualifier	X	ID 3/3
			Code specifying type of date or time, or both date and time Refer to 003070 Data Element Dictionary for acceptable code values.		
X	CUR11	373	Date	X	DT 6/6
			Date (YYMMDD)		
X	CUR12	337	Time	X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
X	CUR13	374	Date/Time Qualifier	X	ID 3/3
			Code specifying type of date or time, or both date and time Refer to 003070 Data Element Dictionary for acceptable code values.		
X	CUR14	373	Date	X	DT 6/6
			Date (YYMMDD)		
X	CUR15	337	Time	X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
X	CUR16	374	Date/Time Qualifier	X	ID 3/3
			Code specifying type of date or time, or both date and time Refer to 003070 Data Element Dictionary for acceptable code values.		
X	CUR17	373	Date	X	DT 6/6

			Date (YYMMDD)	
X	CUR18	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
X	CUR19	374	Date/Time Qualifier	X ID 3/3
			Code specifying type of date or time, or both date and time Refer to 003070 Data Element Dictionary for acceptable code values.	
X	CUR20	373	Date	X DT 6/6
			Date (YYMMDD)	
X	CUR21	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	

Segment: **REF** **Reference Identification**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification Any other qualifiers need to be identified in the N1 loop	
		12	Billing Account	
			Account number under which billing is rendered	
		45	Old Account Number	
			Identifies accounts being changed	
		CT	Contract Number	
		OI	Original Invoice Number	
	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
X	REF04	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
X	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification Refer to 003070 Data Element Dictionary for acceptable code values.	
X	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
X	C04003	128	Reference Identification Qualifier	X ID 2/3

Code qualifying the Reference Identification
Refer to 003070 Data Element Dictionary for acceptable code values.

X	C04004	127	Reference Identification	X	AN 1/30
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Reference information as defined for a particular Transaction Set or as
specified by the Reference Identification Qualifier

X	C04005	128	Reference Identification Qualifier	X	ID 2/3
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Code qualifying the Reference Identification
Refer to 003070 Data Element Dictionary for acceptable code values.

X	C04006	127	Reference Identification	X	AN 1/30
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Reference information as defined for a particular Transaction Set or as
specified by the Reference Identification Qualifier

Segment: **N1** Name
Position: 070
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
>> N101	98	Entity Identifier Code	M	ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual Assumption is that third party providers will not be identified		
		BT Bill-to-Party RE Party to receive commercial invoice remittance		
N102	93	Name	X	AN 1/60
		Free-form name		
N103	66	Identification Code Qualifier	X	ID 1/2
		Code designating the system/method of code structure used for Identification Code (67) Need to further define this segment to UIG members. Give examples. 91=BT supplier's internal id number 92=RE customer's internal id number These numbers are mutually agreed upon by TPs and are used at the header for account info.		
		1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code	X	AN 2/20
		Code identifying a party or other code		
X	N105	706 Entity Relationship Code	O	ID 2/2
		Code describing entity relationship Refer to 003070 Data Element Dictionary for acceptable code values.		

X	N106	98	Entity Identifier Code	O	ID 2/3
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Code identifying an organizational entity, a physical location, property or an individual

Refer to 003070 Data Element Dictionary for acceptable code values.

Segment: **N2** Additional Name Information
Position: 080
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary				
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N201	93	Name	M AN 1/60
			Free-form name	
	N202	93	Name	O AN 1/60
			Free-form name	

Segment: N3 Address Information
Position: 090
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
>>	N301	166	Address Information	M AN 1/55
			Address information	
	N302	166	Address Information	O AN 1/55
			Address information	

Segment: **N4 Geographic Location**
Position: 100
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
N404	26	Country Code	O	ID 2/3
		Code identifying the country		
X	N405	309 Location Qualifier	X	ID 1/2
		Code identifying type of location		
		Refer to 003070 Data Element Dictionary for acceptable code values.		
X	N406	310 Location Identifier	O	AN 1/30
		Code which identifies a specific location		

Segment: **REF** **Reference Identification**
Position: 110
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification Code qualifiers to be used for any other mutually defined numbers.	
	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
X	REF04	C40	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
X	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification Refer to 003070 Data Element Dictionary for acceptable code values.	
X	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
X	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification Refer to 003070 Data Element Dictionary for acceptable code values.	
X	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
X	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	

Refer to 003070 Data Element Dictionary for acceptable code values.

X	C04006	127	Reference Identification	X	AN 1/30
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Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment: **PER** Administrative Communications Contact
Position: 120
Loop: N1
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.
 2 If either PER05 or PER06 is present, then the other is required.
 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: This segment is used only with N101 = RE

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
>>	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			IC Information Contact	
X	PER02	93	Name	O AN 1/60
			Free-form name	
	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			TE Telephone	
	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
X	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			Refer to 003070 Data Element Dictionary for acceptable code values.	
X	PER06	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
X	PER07	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			Refer to 003070 Data Element Dictionary for acceptable code values.	
X	PER08	364	Communication Number	X AN 1/80

Complete communications number including country or area code when applicable

X

PER09

443

Contact Inquiry Reference

O AN 1/20

Additional reference number or description to clarify a contact number

Segment: **ITD** **Terms of Sale/Deferred Terms of Sale**
Position: 130
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify terms of sale
Syntax Notes:

- 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantic Notes:

- 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

- 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
X	ITD01	336	Terms Type Code	O ID 2/2
			Code identifying type of payment terms Refer to 003070 Data Element Dictionary for acceptable code values.	
X	ITD02	333	Terms Basis Date Code	O ID 1/2
			Code identifying the beginning of the terms period Refer to 003070 Data Element Dictionary for acceptable code values.	
X	ITD03	338	Terms Discount Percent	O R 1/6
			Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	
X	ITD04	370	Terms Discount Due Date	X DT 6/6
			Date payment is due if discount is to be earned	
X	ITD05	351	Terms Discount Days Due	X N0 1/3
			Number of days in the terms discount period by which payment is due if terms discount is earned	
	ITD06	446	Terms Net Due Date	O DT 6/6
			Date when total invoice amount becomes due	
X	ITD07	386	Terms Net Days	O N0 1/3
			Number of days until total invoice amount is due (discount not applicable)	
X	ITD08	362	Terms Discount Amount	O N2 1/10
			Total amount of terms discount	
X	ITD09	388	Terms Deferred Due Date	O DT 6/6
			Date deferred payment or percent of invoice payable is due	
X	ITD10	389	Deferred Amount Due	X N2 1/10

			Deferred amount due for payment		
X	ITD11	342	Percent of Invoice Payable	X	R 1/5
			Amount of invoice payable expressed in percent		
X	ITD12	352	Description	O	AN 1/80
			A free-form description to clarify the related data elements and their content		
X	ITD13	765	Day of Month	X	N0 1/2
			The numeric value of the day of the month between 1 and the maximum day of the month being referenced		
X	ITD14	107	Payment Method Code	O	ID 1/1
			Code identifying type of payment procedures Refer to 003070 Data Element Dictionary for acceptable code values.		
X	ITD15	954	Percent	O	R 1/10
			Percentage expressed as a decimal		

Segment: **DTM** Date/Time Reference
Position: 140
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM06 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary				
Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>>	DTM01	374	Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time		
		135	Booking	
		186	Invoice Period Start	
			When the billing period covered by an invoice begins	
		187	Invoice Period End	
			When the billing period covered by an invoice ends	
		266	Base	
			The start of base date for a calendar reference - all dates fall after it	
			Indicates the month in which the highest demand in a 12 month period was reached. If the rate/contract allows this will be the demand used in the bill calculation.	
	DTM02	73	Date	X DT 6/6
			Date (YYMMDD)	
X	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
X	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
			Refer to 003070 Data Element Dictionary for acceptable code values.	

	DTM05	624	Century	O	N0 2/2
			The first two characters in the designation of the year (CCYY)		
X	DTM06	1250	Date Time Period Format Qualifier	X	ID 2/3
			Code indicating the date format, time format, or date and time format Refer to 003070 Data Element Dictionary for acceptable code values.		
X	DTM07	1251	Date Time Period	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		

Segment: **BAL** Balance Detail
Position: 212
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify the specific monetary balances associated with a particular account
Syntax Notes:
Semantic Notes:
Comments:
Notes: This segment is to be used for informational purposes only. All payments should be generated from the TDS.

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	BAL01	951	Balance Type Code	M ID 1/2
			Code indicating the type of balance	
			M	Current Month
			P	Previous Month
				Balance of previous period charges prior to applying payments and adjustments for the previous period billing
			Y	Year to Date
				Deferred plan balance
>>	BAL02	522	Amount Qualifier Code	M ID 1/2
			Code to qualify amount	
			PB	Billed Amount
				Total amount due on the period bill
			TP	Total payment amount
			YB	Actual Unpaid Principal Balance
>>	BAL03	782	Monetary Amount	M R 1/15
			Monetary amount	

Segment: **INC** **Installment Information**
Position: 213
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify installment billing arrangement
Syntax Notes:
Semantic Notes:

- 1 INC02 is the installment period (e.g., months).
- 2 INC03 is the total number of installments.
- 3 INC04 is the number of the current installment.
- 4 INC05 is the installment balance after the current installment is applied.

Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	INC01	336	Terms Type Code	M ID 2/2
			Code identifying type of payment terms	
			04 Deferred or Installment	
>	INC02	C001	Composite Unit of Measure	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
>>	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			MO Months	
X	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
X	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
X	C00104	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 003070 Data Element Dictionary for acceptable code values.	
X	C00105	1018	Exponent	O R 1/15
			Power to which a unit is raised	
X	C00106	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
X	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	

Refer to 003070 Data Element Dictionary for acceptable code values.

X	C00108	1018	Exponent Power to which a unit is raised	O R 1/15
X	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.	O ID 2/2
X	C00111	1018	Exponent Power to which a unit is raised	O R 1/15
X	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
X	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.	O ID 2/2
X	C00114	1018	Exponent Power to which a unit is raised	O R 1/15
X	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
>>	INC03	80	Quantity Numeric value of quantity This is the total number of installments	M R 1/15
>>	INC04	380	Quantity Numeric value of quantity Number of current installments	M R 1/15
	INC05	782	Monetary Amount Monetary amount Installment balance after current installment is applied.	O R 1/15

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 010
Loop: IT1
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
 - 2 If either IT106 or IT107 is present, then the other is required.
 - 3 If either IT108 or IT109 is present, then the other is required.
 - 4 If either IT110 or IT111 is present, then the other is required.
 - 5 If either IT112 or IT113 is present, then the other is required.
 - 6 If either IT114 or IT115 is present, then the other is required.
 - 7 If either IT116 or IT117 is present, then the other is required.
 - 8 If either IT118 or IT119 is present, then the other is required.
 - 9 If either IT120 or IT121 is present, then the other is required.
 - 10 If either IT122 or IT123 is present, then the other is required.
 - 11 If either IT124 or IT125 is present, then the other is required.

- Semantic Notes:**
- Comments:**
- 1 IT101 is the purchase order line item identification.
 - 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
 - 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.

Data Element Summary

Ref.	<u>Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
IT101		350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
X	IT102	58	Quantity Invoiced	X R 1/10
			Number of units invoiced (supplier units)	
X	IT103	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.	
X	IT104	212	Unit Price	X R 1/17
			Price per unit of product, service, commodity, etc.	
X	IT105	639	Basis of Unit Price Code	O ID 2/2
			Code identifying the type of unit price for an item Refer to 003070 Data Element Dictionary for acceptable code values.	
X	IT106	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.	
X	IT107	234	Product/Service ID	X AN 1/48

Identifying number for a product or service			
X	IT108	235	Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.
X	IT109	234	Product/Service ID X AN 1/48 Identifying number for a product or service
X	IT110	235	Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.
X	IT111	234	Product/Service ID X AN 1/48 Identifying number for a product or service
X	IT112	235	Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.
X	IT113	234	Product/Service ID X AN 1/48 Identifying number for a product or service
X	IT114	235	Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.
X	IT115	234	Product/Service ID X AN 1/48 Identifying number for a product or service
X	IT116	235	Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.
X	IT117	234	Product/Service ID X AN 1/48 Identifying number for a product or service
X	IT118	235	Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.
X	IT119	234	Product/Service ID X AN 1/48

			Identifying number for a product or service		
X	IT120	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.		
X	IT121	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
X	IT122	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.		
X	IT123	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
X	IT124	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.		
X	IT125	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		

Segment:	MEA Measurements
Position:	059
Loop:	IT1
Level:	Detail
Usage:	Optional
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. 2 If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary			
Ref.	Data	Name	Attributes
Des.	Element		
MEA01	737	Measurement Reference ID Code	O ID 2/2
Code identifying the broad category to which a measurement applies			
		AA	Meter reading-beginning actual/ending actual
		AE	Meter reading-beginning actual/ending estimated
		BC	Billed Actual
		BN	Billed Minimum
		BO	Meter Reading as Billed
			Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage
		BR	Billed History
		EA	Meter reading-beginning estimated/ending actual
		EE	Meter reading-beginning estimated/ending estimated
MEA02	738	Measurement Qualifier	O ID 1/3
Code identifying a specific product or process characteristic to which a measurement applies			
		MU	Multiplier
		RUD	Usage Deviation (Applies to Kilowatt Hours, Kilowatt Demand and Reactive Demand)
		ZA	Power Factor
			Relationship between watts and volt - amperes necessary to supply electric load
		ZD	Load Factor
			Relationship between watt hours and watt demand necessary to supply electric load
MEA03	739	Measurement Value	X R 1/20

			The value of the measurement	
	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
>>	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		BY	British Thermal Unit (BTU)	
		CF	Cubic Feet	
		EA	Each	
		GA	Gallon	
		HH	Hundred Cubic Feet	
		HJ	Horsepower	
		K1	Kilowatt Demand	
			Represents potential power load measured at predetermined intervals	
		K2	Kilovolt Amperes Reactive Demand	
			Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter	
		K3	Kilovolt Amperes Reactive Hour	
			Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters	
		K4	Kilovolt Amperes	
			Measure of electrical power	
		K5	Kilovolt Amperes Reactive	
			Measure of electrical power	
		K7	Kilowatt	
			Measure of electrical power	
		KH	Kilowatt Hour	
		LB	Pound	
		TH	Thousand	
		TZ	Thousand Cubic Feet	
X	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
X	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	

X	C00104	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.		
X	C00105	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
X	C00106	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00107	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.		
X	C00108	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
X	C0109	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.		
X	C00111	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
X	C00112	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.		
X	C00114	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
X	C00115	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
	MEA05	740	Range Minimum	X	R 1/20
			The value specifying the minimum of the measurement range		

	MEA06	741	Range Maximum	X	R 1/20
			The value specifying the maximum of the measurement range		
	MEA07	935	Measurement Significance Code	O	ID 2/2
			Code used to benchmark, qualify or further define a measurement value		
		34	Ratchet		
			Highest previously attained value		
		41	Off Peak		
		42	On Peak		
		43	Intermediate		
X	MEA08	936	Measurement Attribute Code	X	ID 2/2
			Code used to express an attribute response when a numeric measurement value cannot be determined		
			Refer to 003070 Data Element Dictionary for acceptable code values.		
X	MEA09	752	Surface/Layer/Position Code	O	ID 2/2
			Code indicating the product surface, layer or position that is being described		
			Refer to 003070 Data Element Dictionary for acceptable code values.		
X	MEA10	1373	Measurement Method or Device	O	ID 2/4
			The method or device used to record the measurement		
			Refer to 003070 Data Element Dictionary for acceptable code values.		

Segment: **REF** **Reference Identification**
Position: 120
Loop: IT1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	REF01	28	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
		14	Master Account Number	
			Account number used to represent individual billing accounts which have been consolidated and/or summarized used for consolidated invoice only	
		45	Old Account Number	
			Identifies accounts being changed used for consolidated invoice only	
		46	Old Meter Number	
			Identifies meters being removed	
		CT	Contract Number	
			used for consolidated invoice only	
		MG	Meter Number	
		RB	Rate code number	
	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
X	REF04	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
X	C04001	128	Reference Identification Qualifier	M ID 2/3
UIG 21, 1997			Code qualifying the Reference Identification	

Refer to 003070 Data Element Dictionary for acceptable code values.

X	C04002	127	Reference Identification	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
X	C04003	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification Refer to 003070 Data Element Dictionary for acceptable code values.		
X	C04004	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
X	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification Refer to 003070 Data Element Dictionary for acceptable code values.		
X	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **DTM** Date/Time Reference
Position: 150
Loop: IT1
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM06 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
>>	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		150	Service Period Start	
		151	Service Period End	
		66	Base	
			The start of base date for a calendar reference - all dates fall after it Contract/rate does not apply to all meters. Used only with more than one meter.	
	DTM02	373	Date	X DT 6/6
			Date (YYMMDD)	
	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
X	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 003070 Data Element Dictionary for acceptable code values.	
X	DTM05	624	Century	O N0 2/2
			The first two characters in the designation of the year (CCYY)	
X	DTM06	1250	Date Time Period Format Qualifier	X ID 2/3
			Code indicating the date format, time format, or date and time format Refer to 003070 Data Element Dictionary for acceptable code values.	

X **DTM07** **1251** **Date Time Period** **X** **AN 1/35**

Expression of a date, a time, or range of dates, times or dates and times

Segment: **SAC** Service, Promotion, Allowance, or Charge Information

Position: 180

Loop: SAC

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:

- 1 At least one of SAC02 or SAC03 is required.
- 2 If either SAC03 or SAC04 is present, then the other is required.
- 3 If either SAC06 or SAC07 is present, then the other is required.
- 4 If either SAC09 or SAC10 is present, then the other is required.
- 5 If SAC11 is present, then SAC10 is required.
- 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
- 7 If SAC14 is present, then SAC13 is required.
- 8 If SAC16 is present, then SAC15 is required.

Semantic Notes:

- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
- 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 3 SAC08 is the allowance or charge rate per unit.
- 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.

Comments:

- 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 7 SAC16 is used to identify the language being used in SAC15.
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Data Element Summary

Ref.	Data				
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>>	SAC01	248	Allowance or Charge Indicator	M	ID 1/1
			Code which indicates an allowance or charge for the service specified		
			A	Allowance	
			C	Charge	
			N	No Allowance or Charge	
X	SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID 4/4
			Code identifying the service, promotion, allowance, or charge		
			Refer to 003070 Data Element Dictionary for acceptable code values.		
	SAC03	559	gency Qualifier Code	X	ID 2/2
			Code identifying the agency assigning the code values		

DM requesting new code for UIG

	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge This code list is being developed		
	SAC05	610	Amount	O	N2 1/15
			Monetary amount		
X	SAC06	378	Allowance/ Charge Percent Qualifier	X	ID 1/1
			Code indicating on what basis allowance or charge percent is calculated		
X	SAC07	332	Percent	X	R 1/6
			Percent expressed as a percent		
	SAC08	118	Rate	O	R 1/9
			Rate expressed in the standard monetary denomination for the currency specified		
	SAC09	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		2I	British Thermal Units (BTUs) Per Hour		
			British thermal units per hour		
		BY	British Thermal Unit (BTU)		
		CF	Cubic Feet		
		DA	Days		
		EA	Each		
		GA	Gallon		
		HH	Hundred Cubic Feet		
		HJ	Horsepower		
		K1	Kilowatt Demand		
			Represents potential power load measured at predetermined intervals		
		K2	Kilovolt Amperes Reactive Demand		
			Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter		
		K3	Kilovolt Amperes Reactive Hour		
			Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters		
		K4	Kilovolt Amperes		

			Measure of electrical power		
		K5	Kilovolt Amperes Reactive		
			Measure of electrical power		
		K7	Kilowatt		
			Measure of electrical power		
		KH	Kilowatt Hour		
		LB	Pound		
		MO	Months		
		TH	Thousand		
		TZ	Thousand Cubic Feet		
		WK	Week		
	SAC10	380	Quantity	X	R 1/15
			Numeric value of quantity		
X	SAC11	380	Quantity	O	R 1/15
			Numeric value of quantity		
X	SAC12	331	Allowance or Charge Method of Handling Code	O	ID 2/2
			Code indicating method of handling for an allowance or charge Refer to 003070 Data Element Dictionary for acceptable code values.		
X	SAC13	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
X	SAC14	770	Option Number	O	AN 1/20
			A unique number identifying available promotion or allowance options when more than one is offered		
	SAC15	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
X	SAC16	819	Language Code	O	ID 2/3
			Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)		

Segment: **TXI** Tax Information
Position: 190
Loop: SAC
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 1 TXI02 is the monetary amount of the tax.
- 2 TXI03 is the tax percent expressed as a decimal.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

Data Element Summary				
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	TXI01	963	Tax Type Code	M ID 2/2
			Code specifying the type of tax All values accepted	
	TXI02	782	Monetary Amount	X R 1/15
			Monetary amount	
X	TXI03	954	Percent	X R 1/10
			Percentage expressed as a decimal	
X	TXI04	95	Tax Jurisdiction Code Qualifier	X ID 2/2
			Code identifying the source of the data used in tax jurisdiction code Refer to 003070 Data Element Dictionary for acceptable code values.	
X	TXI05	956	Tax Jurisdiction Code	X AN 1/10
			Code identifying the taxing jurisdiction	
X	TXI06	441	Tax Exempt Code	X ID 1/1
			Code identifying exemption status from sales and use tax Refer to 003070 Data Element Dictionary for acceptable code values.	
X	TXI07	662	Relationship Code	O ID 1/1
			Code indicating the relationship between entities Refer to 003070 Data Element Dictionary for acceptable code values.	
X	TXI08	828	Dollar Basis For Percent	O R 1/9
			Dollar basis to be used in the percent calculation of the allowance, charge or tax	
X	TXI09	325	Tax Identification Number	O AN 1/20

Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

X

TXI10

350

Assigned Identification

O AN 1/20

Alphanumeric characters assigned for differentiation within a transaction set

Segment:	SLN Subline Item Detail
Position:	200
Loop:	SLN
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify product subline detail item data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either SLN04 or SLN05 is present, then the other is required. 2 If SLN07 is present, then SLN06 is required. 3 If SLN08 is present, then SLN06 is required. 4 If either SLN09 or SLN10 is present, then the other is required. 5 If either SLN11 or SLN12 is present, then the other is required. 6 If either SLN13 or SLN14 is present, then the other is required. 7 If either SLN15 or SLN16 is present, then the other is required. 8 If either SLN17 or SLN18 is present, then the other is required. 9 If either SLN19 or SLN20 is present, then the other is required. 10 If either SLN21 or SLN22 is present, then the other is required. 11 If either SLN23 or SLN24 is present, then the other is required. 12 If either SLN25 or SLN26 is present, then the other is required. 13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 SLN01 is the identifying number for the subline item. 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials. 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item. 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:	<ol style="list-style-type: none"> 1 See the Data Element Dictionary for a complete list of IDs. 2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1. 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	SLN01	350	Assigned Identification	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
	SLN02	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
>>	SLN03	662	Relationship Code	M ID 1/1
			Code indicating the relationship between entities	
			Refer to 003070 Data Element Dictionary for acceptable code values.	
	SLN04	380	Quantity	X R 1/15
			Numeric value of quantity	
	SLN05	C001	Composite Unit of Measure	X

To identify a composite unit of measure (See Figures Appendix for examples of use)

>>	C00101	355	Unit or Basis for Measurement Code	M	ID 2/2	
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.			
	C00102	1018	Exponent	O	R 1/15	
			Power to which a unit is raised			
	C00103	649	Multiplier	O	R 1/10	
			Value to be used as a multiplier to obtain a new value			
	C00104	355	Unit or Basis for Measurement Code	O	ID 2/2	
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.			
	C00105	1018	Exponent	O	R 1/15	
			Power to which a unit is raised			
	C00106	649	Multiplier	O	R 1/10	
			Value to be used as a multiplier to obtain a new value			
	C00107	355	Unit or Basis for Measurement Code	O	ID 2/2	
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.			
	C00108	1018	xponent	O	R 1/15	
			Power to which a unit is raised			
	C00109	649	Multiplier	O	R 1/10	
			Value to be used as a multiplier to obtain a new value			
	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2	
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.			
	C00111	1018	Exponent	O	R 1/15	
			Power to which a unit is raised			
	C00112	649	Multiplier	O	R 1/10	
			Value to be used as a multiplier to obtain a new value			
	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2	
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			

Refer to 003070 Data Element Dictionary for acceptable code values.

C00114	1018	Exponent	O	R 1/15
		Power to which a unit is raised		
C00115	649	Multiplier	O	R 1/10
		Value to be used as a multiplier to obtain a new value		
SLN06	212	Unit Price	X	R 1/17
		Price per unit of product, service, commodity, etc.		
SLN07	639	Basis of Unit Price Code	O	ID 2/2
		Code identifying the type of unit price for an item		
		Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN08	662	Relationship Code	O	ID 1/1
		Code indicating the relationship between entities		
		Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN09	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN10	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN11	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN12	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN13	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN14	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN15	25	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		

Refer to 003070 Data Element Dictionary for acceptable code values.

SLN16	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN17	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN18	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN19	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN20	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN21	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN22	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN23	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN24	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN25	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003070 Data Element Dictionary for acceptable code values.		
SLN26	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
SLN27	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		

Refer to 003070 Data Element Dictionary for acceptable code values.

SLN28	234	Product/Service ID	X	AN 1/48
Identifying number for a product or service				

Segment: **DTM** Date/Time Reference
Position: 205
Loop: SLN
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM06 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary				
Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>> DTM01	374	Date/Time Qualifier	M	ID 3/3
		Code specifying type of date or time, or both date and time Refer to 003070 Data Element Dictionary for acceptable code values.		
DTM02	373	Date	X	DT 6/6
		Date (YYMMDD)		
DTM03	337	Time	X	TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
DTM04	623	Time Code	O	ID 2/2
		Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 003070 Data Element Dictionary for acceptable code values.		
DTM05	624	Century	O	N0 2/2
		The first two characters in the designation of the year (CCYY)		
DTM06	1250	Date Time Period Format Qualifier	X	ID 2/3
		Code indicating the date format, time format, or date and time format Refer to 003070 Data Element Dictionary for acceptable code values.		
DTM07	1251	Date Time Period	X	AN 1/35
		Expression of a date, a time, or range of dates, times or dates and times		

Segment: **REF** **Reference Identification**
Position: 210
Loop: SLN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification Refer to 003070 Data Element Dictionary for acceptable code values.	
	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
	REF04	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
>>	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification Refer to 003070 Data Element Dictionary for acceptable code values.	
>>	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification Refer to 003070 Data Element Dictionary for acceptable code values.	
	C4004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	

Refer to 003070 Data Element Dictionary for acceptable code values.

C04006	127	Reference Identification	X	AN 1/30
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Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment:	PID Product/Item Description
Position:	220
Loop:	SLN
Level:	Detail
Usage:	Optional
Max Use:	1000
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	<ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID03 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 Use PID03 to indicate the organization that publishes the code list being referred to. 2 PID04 should be used for industry-specific product description codes. 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate. 4 PID09 is used to identify the language being used in PID05.
Comments:	<ol style="list-style-type: none"> 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used. 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment. 3 PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
>> PID01	349	Item Description Type	M	ID 1/1
		Code indicating the format of a description Refer to 003070 Data Element Dictionary for acceptable code values.		
PID02	750	Product/Process Characteristic Code	O	ID 2/3
		Code identifying the general class of a product or process characteristic Refer to 003070 Data Element Dictionary for acceptable code values.		
PID03	559	Agency Qualifier Code	X	ID 2/2
		Code identifying the agency assigning the code values Refer to 003070 Data Element Dictionary for acceptable code values.		
PID04	751	Product Description Code	X	AN 1/12
		A code from an industry code list which provides specific data about a product characteristic		
PID05	352	Description	X	AN 1/80
		A free-form description to clarify the related data elements and their content		
PID06	752	Surface/Layer/Position Code	O	ID 2/2
		Code indicating the product surface, layer or position that is being described Refer to 003070 Data Element Dictionary for acceptable code values.		
PID07	822	Source Subqualifier	O	AN 1/15

A reference that indicates the table or text maintained by the Source Qualifier

PID08 1073 Yes/No Condition or Response Code O ID 1/1

Code indicating a Yes or No condition or response
Refer to 003070 Data Element Dictionary for acceptable code values.

PID09 819 Language Code O ID 2/3

Code designating the language used in text, from a standard code list
maintained by the International Standards Organization (ISO 639)

Segment: SAC Service, Promotion, Allowance, or Charge Information

Position: 230

Loop: SLN

Level: Detail

Usage: Optional

Max Use: 25

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 - 2 SAC05 is the total amount for the service, promotion, allowance, or charge.
If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 3 SAC08 is the allowance or charge rate per unit.
 - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.

- 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 7 SAC16 is used to identify the language being used in SAC15.
- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
 - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
>> SAC01	248	Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified Refer to 003070 Data Element Dictionary for acceptable code values.	
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X ID 4/4
		Code identifying the service, promotion, allowance, or charge Refer to 003070 Data Element Dictionary for acceptable code values.	
SAC03	559	Agency Qualifier Code	X ID 2/2
		Code identifying the agency assigning the code values Refer to 003070 Data Element Dictionary for acceptable code values.	

SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN 1/10
		Agency maintained code identifying the service, promotion, allowance, or charge		
SAC05	610	Amount	O	N2 1/15
		Monetary amount		
SAC06	378	Allowance/ Charge Percent Qualifier	X	ID 1/1
		Code indicating on what basis allowance or charge percent is calculated Refer to 003070 Data Element Dictionary for acceptable code values.		
SAC07	332	Percent	X	R 1/6
		Percent expressed as a percent		
SAC08	118	Rate	O	R 1/9
		Rate expressed in the standard monetary denomination for the currency specified		
SAC09	355	Unit or Basis for Measurement Code	X	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		BY British Thermal Unit (BTU)		
		CF Cubic Feet		
		DA Days		
		EA Each		
		GA Gallon		
		HH Hundred Cubic Feet		
		HJ Horsepower		
		K1 Kilowatt Demand		
		Represents potential power load measured at predetermined intervals		
		K2 Kilovolt Amperes Reactive Demand		
		Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter		
		K3 Kilovolt Amperes Reactive Hour		
		Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters		
		K4 Kilovolt Amperes		
		Measure of electrical power		
		K5 Kilovolt Amperes Reactive		

			Measure of electrical power		
		K7	Kilowatt		
			Measure of electrical power		
		KH	Kilowatt Hour		
		LB	Pound		
		MO	Months		
		TH	Thousand		
		TZ	Thousand Cubic Feet		
		WK	Week		
		Z1	Lift Van		
SAC10	380	Quantity		X	R 1/15
			Numeric value of quantity		
SAC11	380	Quantity		O	R 1/15
			Numeric value of quantity		
SAC12	331	Allowance or Charge Method of Handling Code		O	ID 2/2
			Code indicating method of handling for an allowance or charge Refer to 003070 Data Element Dictionary for acceptable code values.		
SAC13	127	Reference Identification		X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
SAC14	70	Option Number		O	AN 1/20
			A unique number identifying available promotion or allowance options when more than one is offered		
SAC15	352	Description		X	AN 1/80
			A free-form description to clarify the related data elements and their content		
SAC16	819	Language Code		O	ID 2/3
			Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)		

Segment: **TXI** Tax Information
Position: 237
Loop: SLN
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 1 TXI02 is the monetary amount of the tax.
- 2 TXI03 is the tax percent expressed as a decimal.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
>> TXI01	963	Tax Type Code	M	ID 2/2
		Code specifying the type of tax Refer to 003070 Data Element Dictionary for acceptable code values.		
TXI02	782	Monetary Amount	X	R 1/15
		Monetary amount		
TXI03	954	Percent	X	R 1/10
		Percentage expressed as a decimal		
TXI04	955	Tax Jurisdiction Code Qualifier	X	ID 2/2
		Code identifying the source of the data used in tax jurisdiction code Refer to 003070 Data Element Dictionary for acceptable code values.		
TXI05	956	Tax Jurisdiction Code	X	AN 1/10
		Code identifying the taxing jurisdiction		
TXI06	441	Tax Exempt Code	X	ID 1/1
		Code identifying exemption status from sales and use tax Refer to 003070 Data Element Dictionary for acceptable code values.		
TXI07	662	Relationship Code	O	ID 1/1
		Code indicating the relationship between entities Refer to 003070 Data Element Dictionary for acceptable code values.		
TXI08	828	Dollar Basis For Percent	O	R 1/9
		Dollar basis to be used in the percent calculation of the allowance, charge or tax		
TXI09	325	Tax Identification Number	O	AN 1/20

Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

TXI10

350

Assigned Identification

O AN 1/20

Alphanumeric characters assigned for differentiation within a transaction set

Segment: **N1** Name
Position: 240
Loop: N1
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
>> N101	98	Entity Identifier Code	M	ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual		
		MQ Metering Location		
		SE Selling Party		
N102	93	Name	X	AN 1/60
		Free-form name		
N103	66	Identification Code Qualifier	X	ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
		1 D-U-N-S Number, Dun & Bradstreet		
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
		92 Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code	X	AN 2/20
		Code identifying a party or other code		
X	N105	Entity Relationship Code	O	ID 2/2
		Code describing entity relationship		
		Refer to 003070 Data Element Dictionary for acceptable code values.		
X	N106	Entity Identifier Code	O	ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual		
		Refer to 003070 Data Element Dictionary for acceptable code values.		

Segment: **N2** Additional Name Information
Position: 250
Loop: N1
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary				
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N201	93	Name	M AN 1/60
			Free-form name	
	N202	93	Name	O AN 1/60
			Free-form name	

Segment: **N3** Address Information
Position: 260
Loop: N1
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary				
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N301	166	Address Information	M AN 1/55
			Address information	
	N302	166	Address Information	O AN 1/55
			Address information	

Segment: **N4 Geographic Location**
Position: 270
Loop: N1
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
N404	26	Country Code	O	ID 2/3
		Code identifying the country		
X	N405	309 Location Qualifier	X	ID 1/2
		Code identifying type of location		
		Refer to 003070 Data Element Dictionary for acceptable code values.		
X	N406	310 Location Identifier	O	AN 1/30
		Code which identifies a specific location		

Segment: **TDS** Total Monetary Value Summary
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes:

- 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

Comments:

- 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
>>	TDS01	610	Amount	M N2 1/15
			Monetary amount	
X	TDS02	610	Amount	O N2 1/15
			Monetary amount	
X	TDS03	610	Amount	O N2 1/15
			Monetary amount	
X	TDS04	610	Amount	O N2 1/15
			Monetary amount	

Segment: **TXI** Tax Information
Position: 020
Loop:
Level: Summary
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 1 TXI02 is the monetary amount of the tax.
- 2 TXI03 is the tax percent expressed as a decimal.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
>>	TXI01	963	Tax Type Code	M ID 2/2
			Code specifying the type of tax Accept all values	
	TXI02	782	Monetary Amount	X R 1/15
			Monetary amount	
X	TXI03	954	Percent	X R 1/10
			Percentage expressed as a decimal	
X	TXI04	955	Tax Jurisdiction Code Qualifier	X ID 2/2
			Code identifying the source of the data used in tax jurisdiction code Refer to 003070 Data Element Dictionary for acceptable code values.	
X	TXI05	956	Tax Jurisdiction Code	X AN 1/10
			Code identifying the taxing jurisdiction	
X	TXI06	441	Tax Exempt Code	X ID 1/1
			Code identifying exemption status from sales and use tax Refer to 003070 Data Element Dictionary for acceptable code values.	
X	TXI07	662	Relationship Code	O ID 1/1
			Code indicating the relationship between entities Refer to 003070 Data Element Dictionary for acceptable code values.	
X	TXI08	828	Dollar Basis For Percent	O R 1/9
			Dollar basis to be used in the percent calculation of the allowance, charge or tax	
X	TXI09	325	Tax Identification Number	O AN 1/20

Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

X

TXI10

350

Assigned Identification

O AN 1/20

Alphanumeric characters assigned for differentiation within a transaction set

Segment: SAC Service, Promotion, Allowance, or Charge Information

Position: 040

Loop: SAC

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:

- 1 At least one of SAC02 or SAC03 is required.
- 2 If either SAC03 or SAC04 is present, then the other is required.
- 3 If either SAC06 or SAC07 is present, then the other is required.
- 4 If either SAC09 or SAC10 is present, then the other is required.
- 5 If SAC11 is present, then SAC10 is required.
- 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
- 7 If SAC14 is present, then SAC13 is required.
- 8 If SAC16 is present, then SAC15 is required.

Semantic Notes:

- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
- 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 3 SAC08 is the allowance or charge rate per unit.
- 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.

Comments:

- 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 7 SAC16 is used to identify the language being used in SAC15.
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Data Element Summary

>>	Ref.	Data			Attributes
	Des.	Element	Name		
	SAC01	248	Allowance or Charge Indicator	M	ID 1/1
			Code which indicates an allowance or charge for the service specified		
			A	Allowance	
			C	Charge	
			N	No Allowance or Charge	
X	SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID 4/4
			Code identifying the service, promotion, allowance, or charge Refer to 003070 Data Element Dictionary for acceptable code values.		
	SAC03	559	Agency Qualifier Code	X	ID 2/2
			Code identifying the agency assigning the code values DM is requesting new codes for UIG		

	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge		
	SAC05	610	Amount	O	N2 1/15
			Monetary amount		
X	SAC06	378	Allowance/ Charge Percent Qualifier	X	ID 1/1
			Code indicating on what basis allowance or charge percent is calculated Refer to 003070 Data Element Dictionary for acceptable code values.		
X	SAC07	332	Percent	X	R 1/6
			Percent expressed as a percent		
	SAC08	118	Rate	O	R 1/9
			Rate expressed in the standard monetary denomination for the currency specified		
	SAC09	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		2I	British Thermal Units (BTUs) Per Hour		
			British thermal units per hour		
		BY	British Thermal Unit (BTU)		
		CF	Cubic Feet		
		DA	Days		
		EA	Each		
		GA	Gallon		
		HH	Hundred Cubic Feet		
		HJ	Horsepower		
		K1	Kilowatt Demand		
			Represents potential power load measured at predetermined intervals		
		K2	Kilovolt Amperes Reactive Demand		
			Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter		
		K3	Kilovolt Amperes Reactive Hour		
			Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters		
		K4	Kilovolt Amperes		

			Measure of electrical power		
		K5	Kilovolt Amperes Reactive		
			Measure of electrical power		
		K7	Kilowatt		
			Measure of electrical power		
		KH	Kilowatt Hour		
		LB	Pound		
		MO	Months		
		TH	Thousand		
		TZ	Thousand Cubic Feet		
		WK	Week		
	SAC10	380	Quantity	X	R 1/15
			Numeric value of quantity		
X	SAC11	380	Quantity	O	R 1/15
			Numeric value of quantity		
X	SAC12	331	Allowance or Charge Method of Handling Code	O	ID 2/2
			Code indicating method of handling for an allowance or charge Refer to 003070 Data Element Dictionary for acceptable code values.		
X	SAC13	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
X	SAC14	770	Option Number	O	AN 1/20
			A unique number identifying available promotion or allowance options when more than one is offered		
	SAC15	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
X	SAC16	819	Language Code	O	ID 2/3
			Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)		

Segment: **TXI** Tax Information
Position: 050
Loop: SAC
Level: Summary
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 1 TXI02 is the monetary amount of the tax.
- 2 TXI03 is the tax percent expressed as a decimal.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
>>	TXI01	963	Tax Type Code	M ID 2/2
			Code specifying the type of tax Allow all codes	
	TXI02	782	Monetary Amount	X R 1/15
			Monetary amount	
X	TXI03	954	Percent	X R 1/10
			Percentage expressed as a decimal	
X	TXI04	955	Tax Jurisdiction Code Qualifier	X ID 2/2
			Code identifying the source of the data used in tax jurisdiction code Refer to 003070 Data Element Dictionary for acceptable code values.	
	TXI05	956	Tax Jurisdiction Code	X AN 1/10
			Code identifying the taxing jurisdiction	
X	TXI06	441	Tax Exempt Code	X ID 1/1
			Code identifying exemption status from sales and use tax Refer to 003070 Data Element Dictionary for acceptable code values.	
X	TXI07	662	Relationship Code	O ID 1/1
			Code indicating the relationship between entities Refer to 003070 Data Element Dictionary for acceptable code values.	
X	TXI08	828	Dollar Basis For Percent	O R 1/9
			Dollar basis to be used in the percent calculation of the allowance, charge or tax	
X	TXI09	325	Tax Identification Number	O AN 1/20

Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

X	TXI10	350	Assigned Identification	O	AN 1/20
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Alphanumeric characters assigned for differentiation within a transaction set

Segment: **CTT** Transaction Totals
Position: 070
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.	
			Example:	
			-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	
X	CTT03	81	Weight	X R 1/10
			Numeric value of weight	
X	CTT04	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.	
X	CTT05	183	Volume	X R 1/8
			Value of volumetric measure	
X	CTT06	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003070 Data Element Dictionary for acceptable code values.	
X	CTT07	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
>>	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

